1057-35-243   **Tomasz Adamowicz*** (`adamowtz@math.uc.edu`), 839 Old Chemistry, Cincinnati, OH 45221-0025, and **Peter Hästö**. *Recent developments in nonstandard growth PDEs.*

We generalize p-harmonic equation to the setting of variable exponent PDEs, obtaining equation with many interesting properties not shared by the other existing nonstandard growth extensions of the p-Laplacian. Our discussion includes Harnack inequality, the relation between planar mappings of finite distortion and the gradient of solution and the global integrability of $p(x)$-supersolutions.

The talk is based on the joint work with Peter Hästö, Oulu University. (Received January 24, 2010)